

Welcome!

FHWA Office Planning Webinar

Security in the Project Planning and Development Process – Busting a Few Myths

5 June 2013



Presenters

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Purpose

To provide information about planning for security in transportation infrastructure projects.



Objectives

- **Understand when to include security in the planning process**
- **Learn about resources that are available to assist you**
- **Learn how you can expand the planning community**



Myths

- **Security specialists plan for security**
- **There is no money for security**
- **No one ever talks about security during planning meetings**
- **Nothing can be done**



Background

- **Terrorist organizations have identified transportation infrastructure as targets**
- **Transportation infrastructure**
 - **supports national economic well-being**
 - **provides freedom of movement**



Background

- **Highway infrastructure ties our nation together**
- **Bridges and tunnels are the most likely terrorist highway targets**
- **Tools are available to assist with choosing countermeasures**



Who Plans for Security?

- **Security planning requires working with non-traditional partners...**
 - security
 - law enforcement
 - fire/EMS
 - emergency management
- **...Throughout the process to**
 - address their requirements
 - save time and money



Documents Available

- **Considering Security and Emergency Management in the Planning of Transportation Projects**

- Developed by FHWA Pooled Fund Study

- Find at

<http://www.fhwa.dot.gov/security/emergencymgmt/profcapacitybldg/documents.cfm>



Documents Available

- **Costing Asset Protection: An All Hazards Guide for Transportation Agencies (CAPTA)**

- NCHRP 20-59 panel project

- Find at

<http://www.fhwa.dot.gov/security/emergencymgmt/profcapacitybldg/documents.cfm>



Documents Available

➤ CAPTool Users Guide

➤ FHWA Infrastructure Security Professional Capacity Building project

➤ Find at

<http://www.fhwa.dot.gov/security/emergencymgmt/pr/ofcapacitybldg/documents.cfm>



Training Available

- **IS-860.a, National Infrastructure Protection Plan (NIPP)**

- DHS developed on-line course

- Find at

<http://training.fema.gov/EMIWeb/IS/courseOverview.aspx?code=is-860.a>



Training Available

➤ Risk Management for Terrorist Threats to Bridges and Tunnels Workshop

- Conducted by FHWA upon request
- Self paced version might be available from State training officers
- Find at

<http://www.fhwa.dot.gov/security/emergencymgmt/profcapacitybldg/training.cfm>



Training Available

➤ **Blast Design & Analysis for Bridge Structures Workshop**

➤ **Conducted by FHWA upon request**

➤ **Find at**

<http://www.fhwa.dot.gov/security/emergencymgmt/profcapacitybldg/training.cfm>



No Money?

**Funding security for security is
authorized by MAP-21**





MAP - 21 ON SECURITY

Transportation Systems Management:

Integrated strategies to optimize the performance of existing infrastructure through the implementation of multimodal and intermodal, cross-jurisdictional systems, services, and projects designed to preserve capacity and improve security, safety, and reliability of the transportation system.





MAP - 21 ON SECURITY

Section 119. National Highway Performance Program

ELIGIBLE PROJECTS:

(B) Construction, replacement (including ... security countermeasures, and protection against extreme events) of bridges on the National Highway System.





MAP - 21 ON SECURITY

Section 1108. Surface Transportation Program

ELIGIBLE PROJECTS:

(2) Replacement ... (including ... security countermeasures, and protection against extreme events)





MAP - 21 ON SECURITY

Section 134. Metropolitan Transportation Planning

**. . . increase the security of the transportation system
for motorized and non-motorized users**





What do we Know?

- **Keep people away from critical components**
 - **Plan for access control**

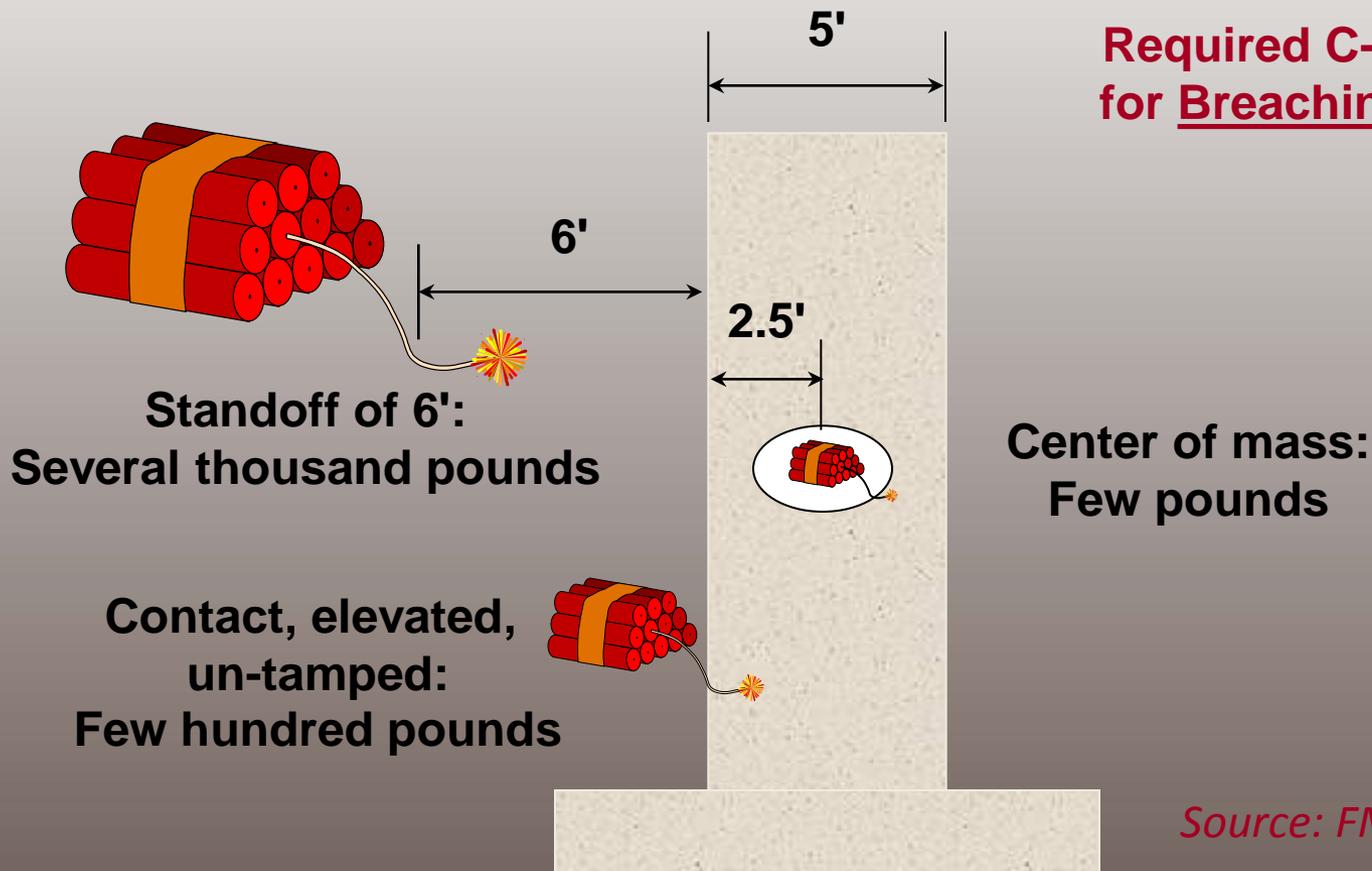




Plan For Access Control



Access Control and Standoff



**Required C-4 Charge Size
for Breaching of Concrete**

Source: FM5-250 and ConWep





What do we Know?

- **Keep people away from critical components**
- **Plan for standoff**





Plan for Standoff



Plan for Standoff



What do we Know?

- **Ensure sensors provide more than a historical record**
- **Link surveillance devices and sensors directly to the response force**



Detect and Respond

- **Detection systems tied to good response**
 - CCTV
 - Intelligent video
 - Intrusion alarms
 - Concept of operations for response

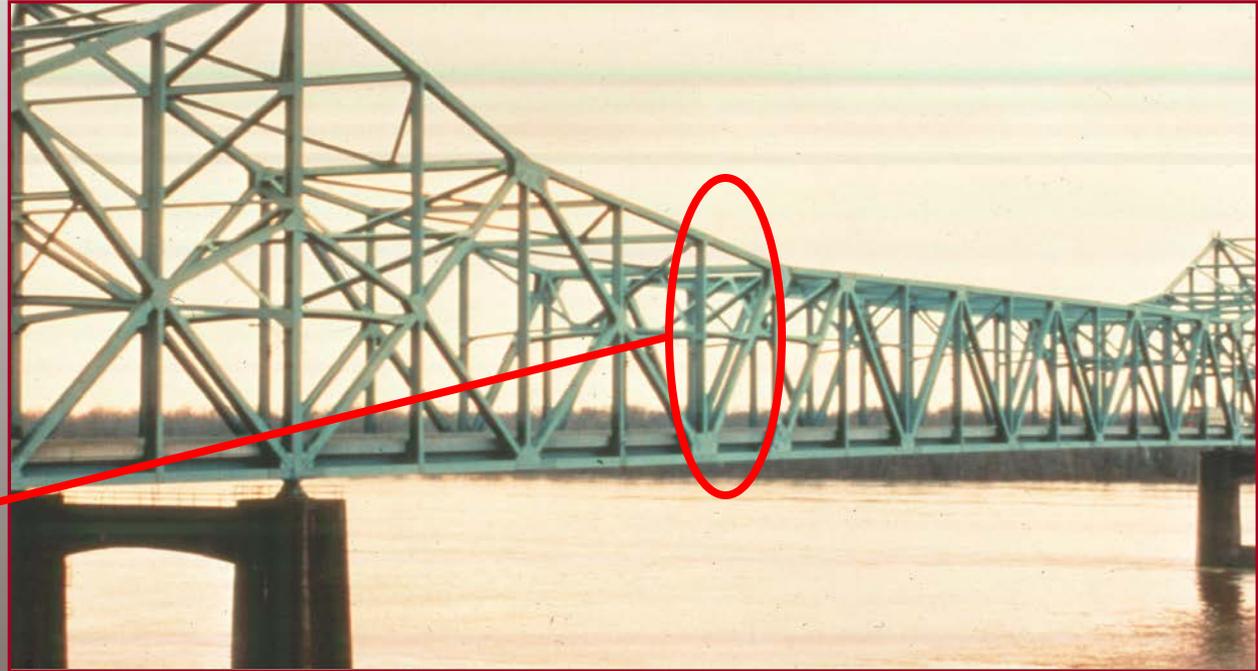
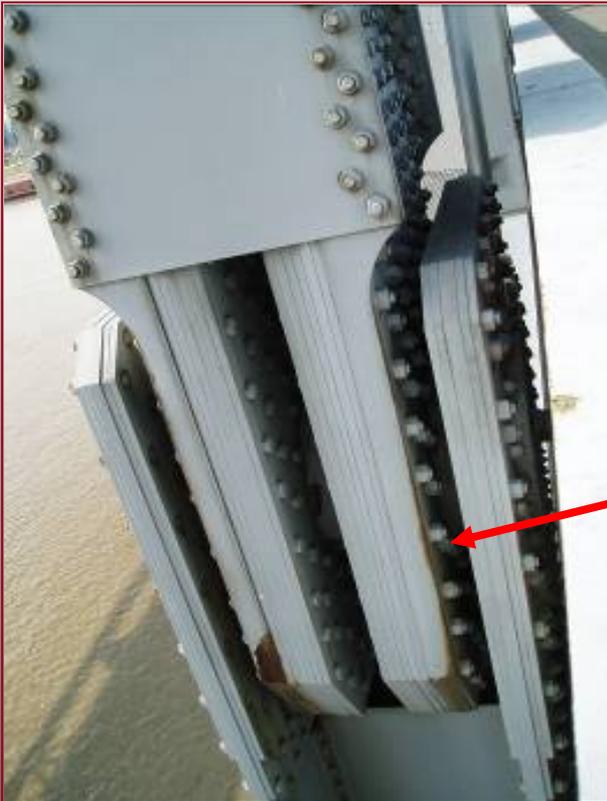


What do we Know?

- **Redundancy equals resilience**
 - **Eliminate single points of failure**



Eliminate Single Points of Failure



What do we Know?

- **Structural hardening may be the most effective option**
- **Harden critical components when adequate standoff is not reasonable**



Structural Hardening





5 June 2013



5 June 2013

33

Benefit from Standoff and Design



Little Standoff/Hardening



Designed Protection





Examples of Planning Meetings

- **FHWA has led or participated in planning workshops in several states, including:**
 - **California**
 - **New York**
 - **Iowa**
 - **Kentucky**
 - **District of Columbia**





Example Security Planning Process Port of Long Beach

- **An initial workshop, led by FHWA in 2007**
 - **Component-level risk assessment**
 - **FHWA report**





Example Security Planning Process Port of Long Beach

- **Private consultant analysis and report**
- **Design-build process used reports to establish security criteria**
- **Final design workshop in 2013**





Planning Meetings

There is not just one way to plan for security.



Summary

- **Documents, methodologies, training are available to assist you**
- **Funding for security is authorized**
- **Countermeasures are available**
- **Expand you planning teams; include non-traditional partners throughout the process**

